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APV introduces â??Combi MPâ?? pilot to advance functional whey protein innovation

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Once considered a by-product of cheesemaking, whey is now a source of high-value nutritional ingredients, and SPX FLOW is helping producers unlock its full potential. With the new portable Combi Microparticulation (MP) pilot line based at our Silkeborg, Denmark Innovation Centre, customers can either trial and refine their recipes on-site or rent the unit for fixed-term periods within their own plant. Flexible to the producerâ??s needs, both options facilitate smoother, creamier, and more functional whey protein development across diverse food and beverage products.

Already in high demand, the companyâ??s â??Combiâ? design enables producers to test recipes using two APV microparticulation technologies, LeanCreme and Cavimaster, from a single, shared platform. This design offers flexibility and efficiency in application trials.

â??This innovation gives our customers a competitive edge,â? said Thomas Leroy, Global Head of Innovation Centres at SPX FLOW. â??By offering two microparticulation methods in one pilot, we help producers accelerate formulation development, reduce waste during testing and tailor the particle size of whey proteins to different product applications.â?

Whey protein has become one of the most sought-after dairy ingredients in the food and nutrition industry, valued for its health benefits and versatility in formulations such as ready-to-drink coffees, desserts and fermented dairy products. At a modest flow rate of 150 litres/hour from this line, customers can perform tests using limited product quantities while gathering valuable process data to guide full-scale production.

Leading global dairy brands are investing heavily in microparticulation to enhance their protein-based product lines. SPX FLOWâ??s combination of application expertise and pilot-scale testing units sets it ahead of industry peers in meeting this demand.